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(1) GENERAL INFORMATION

(i) APPLICANT: Hadlaczky, Gyula  
Szalay, Aladar

(ii) TITLE OF THE INVENTION: ARTIFICIAL CHROMOSOMES, USES THEREOF  
AND METHODS FOR PREPARING ARTIFICIAL CHROMOSOMES

(iii) NUMBER OF SEQUENCES: 34

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Heller Ehrman White & McAuliffe  
(B) STREET: 4250 Executive Square, 7th Floor  
(C) CITY: La Jolla  
(D) STATE: CA  
(E) COUNTRY: USA  
(F) ZIP: 92037

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Diskette  
(B) COMPUTER: IBM Compatible  
(C) OPERATING SYSTEM: DOS  
(D) SOFTWARE: FastSEQ Version 1.5

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US/09/724,693  
(B) FILING DATE: 28-NOV-2000

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/835,682  
(B) FILING DATE: 10-APR-1997  
(C) CLASSIFICATION:

(vi) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/695,191  
(B) FILING DATE: 07-AUG-1996  
(C) CLASSIFICATION:

(vi) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/682,080  
(B) FILING DATE: 15-JUL-1996  
(C) CLASSIFICATION:

(vi) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/629,822  
(B) FILING DATE: 10-APR-1996  
(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Seidman, Stephanie L  
(B) REGISTRATION NUMBER: 33,779  
(C) REFERENCE/DOCKET NUMBER: 24601-402G

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 858-450-8403  
(B) TELEFAX: 858-587-5360  
(C) TELEX:

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1293 base pairs  
(B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GAATTCA	TTTTCANGT	CCTCAAGTGG	ATGTTCTCA	TTTNCATGA	TTTAAGTT	60
TCTGCCATA	TTCCTGGTCC	TACAGTGTGC	ATTTCTCCAT	TTNCACGTT	TTNCAGTGAT	120
TTCGTCA	TTT	TCAAGTCCTC	AAGTGGATGT	TTCTCATTN	CCATGAATT	180
GCATATTCC	ACGTCC	TACA	GNGGACATT	CTAAATTNC	CACCTTTTC	240
GCATATTTC	ACGTCTAAA	ATGTGTATT	CTCGTTNCC	GTGATTTCA	GT	300
CAGATTCAG	GTCCTATAAT	GTGCATT	CATTTNNCAC	GT	360	
TTTTTCAAG	TCGGCAAGT	GATGTTCTC	ATTNCATG	ATTNCAGTT	TTCTTGNAAT	420
ATTCCATGTC	CTACAA	TGAT	CATTTTAAT	TTTCCACCTT	TTCATTTTC	480
TTCATGTCCT	AAAGTGTATA	TTTCTCCTT	TCCGCGATT	TCAGTTTCT	CGCCATATT	540
CAGGTCC	TAC	AGTGTGCATT	CCTCATT	CACCTTTTC	ACTGATTCG	600
AGTCGTCAAC	TGGATCTTC	TAATT	CCA	TGATTTCA	TTATCTTGTC	660
TCCTACAGTG	GACATTCTA	AATT	CCA	CTTTCA	TTTCTCGAC	720
TGCTAAAGTG	TGTATTCTT	ATT	CCGT	ATTTCA	TTCTGCCAT	780
CTAATAGTGT	GCATTCTCA	TTT	TCAC	TTTCAGTGA	TTTCGTCA	840
GTCAAGGGGA	TGTTTCTCAT	TTTCCATGAG	TGTCAGTTT	CTTGCTATAT	TCCATGTC	900
ACAGTGACAT	TTCTAAATAT	TATACCTT	TCAGTTTTC	TCACCATATT	TCACGTC	960
AAGTATATAT	TTCTCATT	CCCTGATT	CAGTTCC	GCCATATTCC	AGGTCTAC	1020
GTGTGCATT	CTCATT	ACGTTTCA	GTAATTCTT	CATT	GCCCTCAAAT	1080
GGATGTTCT	CATT	CCAT	GATTTCA	TTTCTGCCA	TATACCATGT	1140
ACATTCTAA	ATTATCCACC	TTT	TCAGT	TTTCATCGGC	ACATTTCACG	1200
TGTATTCTA	ATTTCAGT	ATT	TCAGT	TTCTGCCAT	ATTCCAGGAC	1260
CATTCTCAT	TTTCACGTT	TTTCAGT	GAA	TTC	CTACAGTGTG	1293

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1044 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

AGGCCTATGG	TGAAAAAGGA	AATATCTTCC	CCTGAAA	AGACAGAAGG	ATTCTCAGAA	60
TCTTATTGT	GATGTGCGCC	CCTCAACTAA	CAGTGTGAA	GCTTTCTTT	GATAGAGCAG	120
TTTGAAACA	CTCTTTGT	AAAATCTGCA	AGAGGATATT	TGGATAGCTT	TGAGGATTTC	180
CGTTGGAAAC	GGGATTGTCT	TCATATAAAC	CCTAGACAGA	AGCATTCTCA	GAAGCTTCAT	240
TGGGATGTT	CAGTTGAAGT	CACAGTGTG	AACAGTCCC	TTTCATAGAG	CAGGTTGAA	300
ACACTCTTT	TTGTAGTATC	TGGAAGTGG	CATTGGAGC	GATCTCAGGA	CTGCGGTGAA	360
AAAGGAAATA	TCTTCCAATA	AAAGCTAGAT	AGAGGCAATG	TCAGAACCT	TTTCATGAT	420
GTATCTACTC	AGCTAACAGA	GTTGAAAC	CCTTGAGAG	AGCAGTTTG	AAACACTCTT	480
TTTGTGGAAT	CTGCAAGTGG	ATATTGTC	AGCTTGAGG	ATTTCGTTGG	GAAACGGGAT	540
TACATATAAA	AAGCAGACAG	CAGCATTCCC	AGAAACTTCT	TTGTGATGTT	TGCATTCAAG	600
TCACAGAGTT	GAACATTCCC	TTTCATAGAG	CAGGTTGAA	ACACACTTT	TGATGTATCT	660
GGATGTGGAC	ATTGCGAGCG	CTTCAGGCC	TAAGGTGAA	AGGAAATATC	TTCCCCTGAA	720
AACTAGACAG	AAGCATTCTC	AGAAACTTAT	TTGTGATG	CGCCCTCAAC	TAACAGTGT	780
GAAGCTTCT	TTTGATAGAG	GCAGTTTGA	AACACTCTT	TGTGGAATCT	GCAAGTGGAT	840
ATTGTCTAG	CTTGAGGAT	TTCTTGAA	ACGGGATTAC	ATATAAAAAG	CAGACAGCAG	900

CATTCCCAGA ATCTTGTTC	TGATGTTGC ATTCAAGTCA CAGAGTTGAA CATTCCCTT	960
CAGAGAGCAG GTTTGAACAC	TCTTTTATA GTATCTGGAT GTGGACATT GGAGCGCTT	1020
CAGGGGGGAT CCTCTAGAAT	TCCT	1044

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2492 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CTGCAGCTGG GGGTCTCCAA TCAGGCAGGG GCCCCTTACT ACTCAGATGG GGTGGCCGAG 60  
 TAGGGGAAGG GGGTGCAGGC TGCATGAGTG GACACAGCTG TAGGACTACC TGGGGGCTGT 120  
 GGATCTATGG GGGTGGGGAG AAGCCCAGTG ACAGTGCCTA GAAGAGACAA GGTGGCCTGA 180  
 GAGGGTCTGA GGAACATAGA GCTGGCCATG TTGGGCCAG GTCTCAAGCA GGAAGTGAGG 240  
 AATGGGACAG GCTTGAGGAT ACTCTACTCA GTAGCCAGGA TAGCAAGGAG GGCTTGGGT 300  
 TGCTATCCTG GGGTTCAACC CCCCAGGTTG AAGGCCCTGG GGGAGATGGT CCCAGGACAT 360  
 ATTACAATGG ACACAGGAGG TTGGGACACC TGGAGTCACC AAACAAAACC ATGCCAAGAG 420  
 AGACCATGAG TAGGGGTGTC CAGTCCAGCC CTCTGACTGA GCTGCATTGT TCAAATCCAA 480  
 AGGGCCCCTG CTGCCACCTA GTGGCTGATG GCATCCACAT GACCCTGGC CACACGCGTT 540  
 TAGGGTCTCT GTGAAGACCA AGATCCTTGT TACATTGAAC GACTCCTAAA TGAGCAGAGA 600  
 TTTCCACCTA TTCGAAACAA TCACATAAAA TCCATCCTGG AAAAAGCCTG GGGGATGGCA 660  
 CTAAGGCTAG GGATAGGGTG GGATGAAGAT TATAGTTACA GTAAGGGTT TAGGGTTAGG 720  
 GATCAACGTT GGTTAGGAGT TAGGGATACA GTAGGGTACC GGTAGGGTTA GGGGTTAGGG 780  
 TTAGGGTTA GGGTTAGGAGT TAGGGTTAGG GTTAGGGTTA GGGGTTAGGG GTTAGGGTTA 840  
 GGGTTAGGTT TTGGGTGGC GTATTTGGT CTTATACGCT GTGTTCCACT GGCAATGAAA 900  
 AGAGTTCTTG TTTTCCTTC AGCAATTGTG CATTTTAAA AGAGTTTAGC AATTCTAAC 960  
 GATATAGACC AGCTGTGCTA TCTCATGTG GTTTCAATT GTAACCACAT TGTGGTTCA 1020  
 ATGTGTTAC TTGCCATCTG TAGATCTTCT TTGCGTGAGG TGTCTGTTCA GATGTGTGTG 1080  
 CATTCTTGN NTTTNGGCTG TTTAACCTAT TGTTTAGTT TAATAATTAA TTATATATT 1140  
 GAAGACAAAT CTTCTCAGA TGTGTATTG CAAATATTC TTCAATATGA GGCTGCTTT 1200  
 TGTCTCTAAC AAGGTCTCTT CAGAGATAAC TTAAATATAA GAAATCCACA CTGTCACCTC 1260  
 TTTGTGTAT ATCTACCTTT TGTGTCAATT GTTAAAATTC ATTACCAAAC CCAAAGGCAG 1320  
 ATAGCTTTTC TTCTATTGTT TCTTCTAGAA ATTTGTATAG TTTTGCATT TTAGTGTAAAG 1380  
 GATGATTTC AGTGATTATT TGTGTAAAGTT GTAAAGTTT CGTCTATATC CATATCATT 1440  
 CTTATGGTTT CCAATTAATC GTTCCCTCAC TATTTTGGG AAAGACACAG GATAGTGGGC 1500  
 TTTGTTAGAG TAGATAGGTA GCTAGACATG AACAGGAGGG GGCCTCCTGG AAAAGGGAAA 1560  
 GTCTGGGAAG GCTCACCTGG AGGACCACCA AAAATTCAAA TATTAGTAGC ATCTCTAGTG 1620  
 CTGGAGTGG A TGGGCACCTTG TCAATTGTGG GTAGGAGGG AAAGAGGTCC TATGCAGAAA 1680  
 GAAACTCCCT AGAACTCCTC TGAAGATGCC CCAATCATT ACTCTGCAAT AAAAATGTCA 1740  
 GAATATTGCT AGCTACATGC TGATAAGGNN AAAGGGACA TTCTTAAGTG AAACCTGGCA 1800  
 CCATAAGTAC AGATTAGGGC AGAGAAGGAC ATTCAAAAGA GGCAGGCGCA GTAGGTACAA 1860  
 ACGTGATCGC TGTCAAGTGTG CCTGGGATGG CGGGAAAGGAG GCTGGTGCCA GAGTGGATT 1920  
 GTATTGATCA CCACACATAT ACCTCAACCA ACAGTGAGGA GGTCCCACAA GCCTAAAGTGG 1980  
 GGCAAGTTGG GGAGCTAAGG CAGTAGCAGG AAAACCAGAC AAAGAAAACA GGTGGAGACT 2040  
 TGAGACAGAG GCAGGAATGT GAAGAAATCC AAAATAAAAT TCCCTGACCA GGACTCTTAG 2100  
 GCTGTTTAAT GCATCGCTCA GTCCCACCTCC TCCCTATTG TCTACAATAA ACTCTTTACA 2160  
 CTGTGTTCT TTTCAATGAA GTTATCTGCC ATCTTTGTAT TGCCCTTTGG TGAAAATGTT 2220  
 TCTTCCAAGT TAAACAAGAA CTGGGACATC AGCTCTCCC AGTAATAGCT CCGTTTCAGT 2280  
 TTGAATTAC AGAACTGATG GGCTTAATAA CTGGCGCTCT GACTTTAGTG GTGCAGGAGG 2340  
 CCGTCACACC GGGACCAAGA GTGCCCTGCC TAGTCCCCAT CTGCCCGCAG GTGGCGGCTG 2400  
 CCTCGACACT GACAGCAATA GGGTCCGGCA GTGTCCCCAG CTGCCAGCAG GGGCGTACG 2460  
 ACGACTACAC TGTGAGCAAG AGGGCCCTGC AG 2492

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 28 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA  
(iii) HYPOTHETICAL: NO  
(iv) ANTISENSE: NO  
(v) FRAGMENT TYPE:  
(vi) ORIGINAL SOURCE:  
(ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

GGGAAATTCA TTGGGATGTT TCAGTTGA

28

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 29 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA  
(iii) HYPOTHETICAL: NO  
(iv) ANTISENSE: NO  
(v) FRAGMENT TYPE:  
(vi) ORIGINAL SOURCE:  
(ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

CGAAAGTCCC CCCTAGGAGA TCTTAAGGA

29

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 47 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA  
(iii) HYPOTHETICAL: NO  
(iv) ANTISENSE: NO  
(v) FRAGMENT TYPE:  
(vi) ORIGINAL SOURCE:  
(ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

CCGCTTAATA CTCTGATGAG TCCGTGAGGA CGAAACGCTC TCGCACC

47

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 25 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA  
(iii) HYPOTHETICAL: NO

- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

CGATTAAAT TAATTAAGCC CGGGC

25

(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 27 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

TAAATTAAAT TAATTCGGGC CCGTCGA

27

(2) INFORMATION FOR SEQ ID NO:9:

*Or Cont*

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 69 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (D) OTHER INFORMATION IL-2 signal sequence

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

ATG TAC AGG ATG CAA CTC CTG TCT TGC ATT GCA CTA AGT CTT GCA CTT  
Met Tyr Arg Met Gln Leu Leu Ser Cys Ile Ala Leu Ser Leu Ala Leu

48

GTC ACA AAC AGT GCA CCT ACT  
Val Thr Asn Ser Ala Pro Thr

69

(2) INFORMATION FOR SEQ ID NO:10:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 945 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:
  - (A) NAME/KEY: Coding Sequence
  - (B) LOCATION: 1...942
  - (D) OTHER INFORMATION: *Renilla Reiniformis Luciferase*

## (x) PUBLICATION INFORMATION:

(H) Document Number: 5,418,155

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

AGC TTA AAG ATG ACT TCG AAA GTT TAT GAT CCA GAA CAA AGG AAA CGG	48
Ser Leu Lys Met Thr Ser Lys Val Tyr Asp Pro Glu Gln Arg Lys Arg	
1 5 10 15	
ATG ATA ACT GGT CCG CAG TGG TGG GCC AGA TGT AAA CAA ATG AAT GTT	96
Met Ile Thr Gly Pro Gln Trp Trp Ala Arg Cys Lys Gln Met Asn Val	
20 25 30	
CTT GAT TCA TTT ATT AAT TAT TAT GAT TCA GAA AAA CAT GCA GAA AAT	144
Leu Asp Ser Phe Ile Asn Tyr Tyr Asp Ser Glu Lys His Ala Glu Asn	
35 40 45	
GCT GTT ATT TTT TTA CAT GGT AAC GCG GCC TCT TCT TAT TTA TGG CGA	192
Ala Val Ile Phe Leu His Gly Asn Ala Ala Ser Ser Tyr Leu Trp Arg	
50 55 60	
CAT GTT GTG CCA CAT ATT GAG CCA GTA GCG CGG TGT ATT ATA CCA GAT	240
His Val Val Pro His Ile Glu Pro Val Ala Arg Cys Ile Ile Pro Asp	
65 70 75 80	
CTT ATT GGT ATG GGC AAA TCA GGC AAA TCT GGT AAT GGT TCT TAT AGG	288
Leu Ile Gly Met Gly Lys Ser Gly Lys Ser Gly Asn Gly Ser Tyr Arg	
85 90 95	
TTA CTT GAT CAT TAC AAA TAT CTT ACT GCA TGG TTG AAC TTC TTA ATT	336
Leu Leu Asp His Tyr Lys Tyr Leu Thr Ala Trp Leu Asn Phe Leu Ile	
100 105 110	
TAC CAA AGA AGA TCA TTT TTT GTC GGC CAT GAT TGG GGT GCT TGT TTG	384
Tyr Gln Arg Arg Ser Phe Phe Val Gly His Asp Trp Gly Ala Cys Leu	
115 120 125	
GCA TTT CAT TAT AGC TAT GAG CAT CAA GAT AAG ATC AAA GCA ATA GTT	432
Ala Phe His Tyr Ser Tyr Glu His Gln Asp Lys Ile Lys Ala Ile Val	
130 135 140	
CAC GCT GAA AGT GTA GTA GAT GTG ATT GAA TCA TGG GAT GAA TGG CCT	480
His Ala Glu Ser Val Val Asp Val Ile Glu Ser Trp Asp Glu Trp Pro	
145 150 155 160	
GAT ATT GAA GAA GAT ATT GCG TTG ATC AAA TCT GAA GAA GGA GAA AAA	528
Asp Ile Glu Glu Asp Ile Ala Leu Ile Lys Ser Glu Glu Gly Glu Lys	
165 170 175	
ATG GTT TTG GAG AAT AAC TTC TTC GTG GAA ACC ATG TTG CCA TCA AAA	576
Met Val Leu Glu Asn Asn Phe Phe Val Glu Thr Met Leu Pro Ser Lys	
180 185 190	
ATC ATG AGA AAG TTA GAA CCA GAA GAA TTT GCA GCA TAT CTT GAA CCA	624
Ile Met Arg Lys Leu Glu Pro Glu Glu Phe Ala Ala Tyr Leu Glu Pro	
195 200 205	
TTC AAA GAG AAA GGT GAA GTT CGT CGT CCA ACA TTA TCA TGG CCT CGT	672
Phe Lys Glu Lys Gly Glu Val Arg Arg Pro Thr Leu Ser Trp Pro Arg	
210 215 220	
GAA ATC CCG TTA GTA AAA GGT GGT AAA CCT GAC GTT GTA CAA ATT GTT	720
Glu Ile Pro Leu Val Lys Gly Gly Lys Pro Asp Val Val Gln Ile Val	
225 230 235 240	
AGG AAT TAT AAT GCT TAT CTA CGT GCA AGT GAT GAT TTA CCA AAA ATG	768

Arg Asn Tyr Asn Ala Tyr Leu Arg Ala Ser Asp Asp Leu Pro Lys Met	245	250	255	
TTT ATT GAA TCG GAT CCA GGA TTC TTT TCC AAT GCT ATT GTT GAA GGC				816
Phe Ile Glu Ser Asp Pro Gly Phe Phe Ser Asn Ala Ile Val Glu Gly	260	265	270	
GCC AAG AAG TTT CCT AAT ACT GAA TTT GTC AAA GTA AAA GGT CTT CAT				864
Ala Lys Lys Phe Pro Asn Thr Glu Phe Val Lys Val Lys Gly Leu His	275	280	285	
TTT TCG CAA GAA GAT GCA CCT GAT GAA ATG GGA AAA TAT ATC AAA TCG				912
Phe Ser Gln Glu Asp Ala Pro Asp Glu Met Gly Lys Tyr Ile Lys Ser	290	295	300	
TTC GTT GAG CGA GTT CTC AAA AAT GAA CAA TAA				945
Phe Val Glu Arg Val Leu Lys Asn Glu Gln	305	310		

(2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 30 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

TTTGAATTCA A TGTACAGGAT GCAACTCCTG 30

(2) INFORMATION FOR SEQ ID NO:12:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 30 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

TTTGAATTCA GTAGGTGCAC TGTTTGTAC 30

(2) INFORMATION FOR SEQ ID NO:13:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1434 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO  
 (v) FRAGMENT TYPE:  
 (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

CCTCCACGCA	CGTTGTGATA	TGTAGATGAT	AATCATTATC	AGAGCAGCGT	TGGGGATAA	60
TGTCGACATT	TCCACTCCA	ATGACGGTGA	TGTATAATGC	TCAAGTATTTC	TCCTGCTTT	120
TTACCACTAA	CTAGGAACGT	GGTTTGGCCT	TAATTCAAGAC	AGCCTTGGCT	CTGTCTGGAC	180
AGGTCCAGAC	GACTGACACC	ATTAACACTT	TGTAGCCTC	AGTGAACATA	GTCATAGATG	240
AACAGGCCTC	AGCTAAATGTC	AAGATACAGA	GAGGTCTCAT	GCTGGTTAAT	CAACTCATAG	300
ATCTTGTCCA	GATACAACTA	GATGTATTAT	GACAAATAAC	TCAGCAGGGA	TGTGAACAAA	360
AGTTTCCGGG	ATTGTGTGTT	ATTCCATTTC	AGTATGTTAA	ATTTACTAGG	ACAGCTAATT	420
TGTCAAAAAG	TCTTTTCAG	TATATGTTAC	AGAATTGGAT	GGCTGAATT	GAACAGATCC	480
TTCGGGAATT	GAGACTTCAG	GTCAACTCCA	CGCGCTTGGGA	CCTGTCGCTG	ACCAAAGGAT	540
TACCCAATTG	GATCTCCTCA	GCATTTCTT	TCTTTAAAAAA	ATGGGTGGGA	TTAATATTAT	600
TTGGAGATAC	ACTTTGCTGT	GGATTAGTGT	TGCTTCTTG	ATTGGTCTGT	AAGCTTAAGG	660
CCCAAACCTAG	GAGAGACAAG	GTGGTTATTG	CCCAGGCGCT	TGCAGGACTA	GAACATGGAG	720
CTTCCCCTGA	TATATGGTTA	TCTATGCTTA	GGCAATAGGT	CGCTGGCCAC	TCAGCTCTTA	780
TATCCCACGA	GGCTAGTCTC	ATTGTACGGG	ATAGAGTGAG	TGTGCTTCAG	CAGCCCGAGA	840
GAGTTGCAAG	GCTAAGCACT	GCAATGGAAA	GGCTCTGCAG	CATATATGTG	CCTATTCTAG	900
GGGGACATGT	CATCTTCAT	GAAGGTTCAAG	TGTCTTAGTT	CCCTTCCCCC	AGGCAAAACG	960
ACACGGGAGC	AGGTCAAGGGT	TGCTCTGGGT	AAAAGCCTGT	GAGCCTGGGA	GCTAATCCTG	1020
TACATGGCTC	CTTTACCTAC	ACACTGGGA	TTTGACCTCT	ATCTCCACTC	TCATTAATAT	1080
GGGTGGCCTA	TTTGCTCTTA	TTAAAAGGAA	AGGGGGAGAT	GTTGGGAGCC	GCGCCCCACAT	1140
TCGCCGTTAC	AAGATGGCGC	TGACAGCTGT	GTTCTAAAGTG	GTAAACAAAT	AATCTGCGCA	1200
TGTGCCGAGG	GTGGTTCTTC	ACTCCATGTG	CTCTGCCTTC	CCCGTGACGT	CAACTCGGCC	1260
GATGGGCTGC	AGCCAATCAG	GGAGTGACAC	GTCCTAGGCG	AAGGAGAATT	CTCCTTAATA	1320
GGGACGGGGT	TTCGTTCTCT	CTCTCTCTCT	TGCTTCTCTC	TCTTGCTTT	TCGCTCTCTT	1380
GCTTCCCGTA	AAAGTGATAAT	GATTATCATC	TACATATCAC	AACGTGCGTG	GAGG	1434

(2) INFORMATION FOR SEQ ID NO:14:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1400 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

CCTCCACGCA	CGTTGTGATA	TGTAGATGAT	AATCATTATC	AGAGCAGCGT	TGGGGATAA	60
TGTCGACATT	TCCACTCCA	ATGACGGTGA	TGTATAATGC	TCAAGTATTTC	TCCTGCTTT	120
TTACCACTAA	CTAGGAACGT	GGTTTGGCCT	TAATTCAAGAC	AGCCTTGGCT	CTGTCTGGAC	180
AGGTCCAGAT	ACAACCTAGAT	GTATTATGAC	AAATAACTCA	GCAGGGATGT	GAACAAAAGT	240
TTCCGGGATT	GCGTGTATT	TCCATCCAGT	ATGTTAAATT	TACTAGGGCA	GCTAATTGTT	300
CAAAAAGTCT	TTTCCAGTAT	ATGTTACAGA	ATTGGATGGC	TGAATTGAA	CAGATCCTTC	360
GGGAATTGAG	ACTTCAGGTC	AACTCCACGC	GCTTGGACCT	GTCCCTGACC	AAAGGATTAC	420
CCAATTGGAT	CTCCTCAGCA	TTTTCTTCT	TTAAAAAAATG	GGTGGGATTA	ATATTATTTG	480
GAGATACACT	TTGCTGTGGA	TTAGTGTGTC	TTCTTGATT	GGTCTGTAAG	CTTAAGGCC	540
AAACTAGGAG	AGACAAGGTG	GTTATTGCC	AGGCGCTTGC	AGGACTAGAA	CATGGAGCTT	600
CCCCTGATAT	ATCTATGCTT	AGGCAATAGG	TCGCTGGCCA	CTCAGCTCTT	ATATCCCCTG	660
AGGCTAGTCT	CATTGCACGG	GATAGAGTGA	GTGTGCTTC	GCAGCCCGAG	AGAGTTGCAC	720
GGCTAACGAC	TGCAATGGAA	AGGCTCTGCG	GCATATATGA	GCCTATTCTA	GGGAGACATG	780
TCATCTTCA	AGAAGGTTGA	GTGTCCAAGT	GTCCTTCCTC	CAGGCAAAAC	GACACGGGAG	840
CAGGTCAAGGG	TTGCTCTGGG	TAAAAGCCTG	TGAGCCTAAG	AGCTAATCCT	GTACATGGCT	900
CCTTACCTA	CACACTGGGG	ATTGACCTC	TATCTCCACT	CTCATTAAATA	TGGGTGGCCT	960
ATTGCTCTT	ATTAAAAGGA	AAGGGGGAGA	TGTTGGGAGC	CGCGCCACAA	TTCGCCGTTA	1020
CAAGATGGCG	CTGACAGCTG	TGTTCTAAAGT	GGTAAACAAA	TAATCTGCGC	ATGCGCCGAG	1080
GGTGGTTCTT	CACTCCATGT	GCTCTGCCTT	CCCCGTGACG	TCAACTCGGC	CGATGGGCTG	1140
CAGTCAATCA	GGGAGTGACA	CGTCCTAGGC	GAAGGAAAAT	TCTCCTTAAT	AGGGACGGGG	1200

TTTCGTTTC	TCTCTCTT	GCTTCGCTCT	CTCTTGCTTC	TTGCTCTCTT	TTCCTGAAGA	1260
TGTAAGAATA	AAGCTTGCC	GCAGAAAGATT	CTGGTCTGTG	GTGTTCTTCC	TGGCCGGTCG	1320
TGAGAACGCG	TCTAATAACA	ATTGGTGCCG	AAACCCGGGT	GATAATGATT	ATCATCTACA	1380
TATCACAAACG	TGCGTGGAGG					1400

(2) INFORMATION FOR SEQ ID NO:15:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1369 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

CCTCCACGCA	CGTTGTGATA	TGTAGATGAT	AATCATTATC	ACTTTACGGG	TCCTTCACT	60
ACAACTGCCA	CGAGGCCCG	TGCTCTGGTA	ATAGATCTT	GCTGAAAAGG	CACACACATG	120
ACACATTACT	CAAGGTGGC	TCATCTGAGC	TGCAGATTCA	GCTTAATATG	AATCTTGCCA	180
ATTGTGTGAA	ATCATAAAC	TTCAAAGTGA	CACTCATTGC	CAGACACAGG	TGCCACCTT	240
TGGCATAATA	AACAAACACA	AATTATCTAT	TATATAAAAGG	GTGTTAGAAG	ATGCTTTAGA	300
ATACAAATAA	ATCATGGTAG	ATAACAGTAA	GTTGAGAGCT	TAAATTTAAT	AAAGTGTAT	360
ACCTAATAAA	AATTAAATTA	AGAAGGTGTG	AATATACTAC	AGTAGGTAAA	TTATTTCAT	420
AATTTATT	CTTTCTTAAT	CCTTATAAT	GTTTCTGCT	ATTGTCAATT	GCACATCCAT	480
ATGTTCAATT	CTTCACTGTA	ATGAAGAAAT	GTAGTAAATA	TACTTCCGA	ACAAGTTGTA	540
TCAAATATGT	TACACTTGAT	TCCGTGTGTT	ACTTATCATT	TTATTATTAT	ATTGATTGCA	600
TTCCTTCGTT	ACTTGATATT	ATTACAAGGT	ACATATTAT	TCTCTCAGAT	CTTCATTATA	660
CTCTAACCAT	TTTATAACAT	ACTTTATT	TTCATTTCTT	ATGTGTGCTG	TGAGGCACAA	720
ATGCCAGAGA	GAACTTGAGC	AGATAAGAGG	ACAAATTGCA	AGAGTCAGTT	ACCTCCTGCT	780
GTTCCCTGG	AACTCAGGAT	CAAATTCA	TTGTCAGGCT	TGGCAGCATG	CACTTTTAC	840
CAGTGCCTCC	ATCTTGCTAG	CCCTGAACAT	CAAGCTTGC	AGACAGACAG	GCTACACTAA	900
GTGAACTGGT	CATTCACAGC	ATGCATGGTG	ATTTATTGTT	ACTTTCTATT	CCATGCCCTT	960
ACTATTTCTA	CTAGGTGCTA	GCTAGTACTG	TATTCGAGA	TAGAAAGTTAC	TGAAAGAAAA	1020
TTACATTGTT	TTCTATAGAT	CCTTGATACT	CTTTCAGCAG	ATATAGAGTT	TTAACATCAGGT	1080
CCTAGACCCT	TTCTTCACTC	TTATTAAATA	CTAAGTACAA	ATTAAGTTA	TCCAAAACAG	1140
TACGGATGTT	GATTTTGTC	AGTTCTACTA	TGATAATAGT	CTAGCTTCAT	AAATCTGACA	1200
CACTTATTGG	GAATGTTTT	GTAAATAAAA	GATTCAGGTG	TTACTCTAGG	TCAAGAGAAT	1260
ATAAACATC	AGTCCC	AAAT	TACAAACTTC	AATAAAAGAT	TTGACTCTCC	1320
ATATAAAGTG	ATAATGATTA	TCATCTACAT	ATCACAACGT	GCCTGGAGG		1369

(2) INFORMATION FOR SEQ ID NO:16:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 22118 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

GAATTCCCCT	ATCCCTAAC	CAGATTGGTG	GAATAACTTG	GTATAGATGT	TTGTGCATTA	60
AAAACCCTGT	AGGATCTTCA	CTCTAGGTCA	CTGTTCAGCA	CTGGAACCTG	AATTGTGGCC	120
CTGAGTGATA	GGTCCTGG	CATATGCAGT	TCTGCACAGA	CAGACAGACA	GACAGACAGA	180
CAGACAGACA	GACAGACGTT	ACAAACAAAC	ACGTTGAGCC	GTGTGCCAAC	ACACACACAA	240
ACACCACTCT	GGCCATAATT	ATTGAGGACG	TTGATTATT	ATTCTGTGTT	TGTGAGTCTG	300
TCTGTCTGTC	TGTCTGTCTG	TCTGTCTGTC	TATCAAACCA	AAAGAAACCA	AACAATTATG	360

CCTGCCTGCC	TGCCTGCCTG	CCTACACAGA	GAAATGATT	CTTCAATCAA	TCTAAAACGA	420
CCTCCTAAGT	TTGCCTTTT	TCTCTTCTT	TATCTTTTC	TTTTTCTTT	TCTTCTTCCT	480
TCCTTCCTTC	CTTCCTTCCT	TCCTTCCTT	CTTCTTCTCT	TTCTTCTTT	CTTACTTTCT	540
TTCTTCCTT	CTTACATTTA	TTCTTTCAT	ACATAGTTTC	TTAGTGTAAAG	CATCCCTGAC	600
TGTCTTGAAG	ACACTTTGTA	GGCCTCAATC	CTGTAAGAGC	CTTCCTCTGC	TTTCAAATG	660
CTGGCATGAA	TGTTGTACCT	CACTATGACC	AGCTTAGTCT	TCAAGTCTGA	GTTACTGGAA	720
AGGAGTTCCA	AGAAGACTGG	TTATATTTT	CATTTATTAT	TGCATTTAA	TTAAAATTTA	780
ATTTCACCAA	AAGAATTAG	ACTGACCAAT	TCAGAGTCTG	CCGTTAAAAA	GCATAAGGAA	840
AAAGTAGGAG	AAAAACGTGA	GGCTGTCTGT	GGATGGTCGA	GGCTGCTTA	GGGAGCCTCG	900
TCACCATTCT	GCACCTGCAA	ACCGGGCCAC	TAGAACCCGG	TGAAGGGAGA	AACCAAAGCG	960
ACCTGGAAAC	AATAGGTAC	ATGAAGGCCA	GCCACCTCCA	TCTTGTGTC	CGGGAGTTCA	1020
GTTAGCAGAC	AAGATGGCTG	CCATGCACAT	GTTGTCTTC	AGCTGGTGA	GGTCAAAGTA	1080
CAACCGAGTC	ACAGAACAAAG	GAAGTATACA	CAGTGAGTTC	CAGGTCAAGCC	AGAGTTTACA	1140
CAGAGAAACC	ACATCTGAA	AAAAACAAAAA	AAATAAATTAA	AATAAATATA	ATTTAAAAAT	1200
TTAAAAATAG	CCGGGAGTGA	TGGCGCATGT	CTTTAATCCC	AGCTCTCTTC	AGGCAGAGAT	1260
GGGAGGATT	CTGAGTTGA	GGCCAGCCTG	GTCTGCAAAG	TGAGTTCCAG	GACAGTCAGG	1320
GCTATACAGA	GAAACCTGT	CTTGAAAACT	AAACTAAATT	AAACTAAACT	AAACTAAAAAA	1380
AATATAAAAT	AAAAATTAA	AAGAATTAA	AAAAACTACA	GAAATCAAAC	ATAAGCCCAC	1440
GAGATGGCAA	GTAACTGCAA	TCATAGCAGA	AATATTATAC	ACACACACAC	ACACAGACTC	1500
TGTCATAAAA	TCCAATGTGC	CTTCATGATG	ATCAAATTTC	GATAGTCAGT	AATACTAGAA	1560
GAATCATATG	TCTGAAAATA	AAAGCCAGAA	CCTTTCTGC	TTTTGTTTC	TTTGCCCCA	1620
AGATAGGGTT	TCTCTCAGTG	TATCCCTGGC	ATCCCTGCCT	GGAACTTCCT	TTGTAGGTT	1680
GGTAGCCTCA	AACTCAGAGA	GGTCCTCTCT	GCCTGCCCTGC	CTGCCGCCT	GCCTGCCCTGC	1740
CTGCCTGCCT	GCCTGCCCTCA	CTTCTTCTGC	CACCCACACA	ACCGAGTCGA	ACCTAGGATC	1800
TTTATTTCTT	TCTCTTCTC	TCTTCTTTCT	TTCTTCTTT	CTTCTTCTCT	TTCTTCTTT	1860
CTTTCTTCTT	TTCTTATTCA	ATTAGTTTC	AATGTAAGTG	TGTGTTGTG	CTCTATCTGC	1920
TGCCTATAGG	CCTGCTTGCC	AGGAGAGGGC	AAACAGAACCT	AGGAGAAACC	ACCATGCAGC	1980
TCCTGAGAAT	AAAGTAAAAAA	ACAACAAAAAA	AAGGAAATTG	TAATCACATA	GAATGTAGAT	2040
ATATGCCGAG	GCTGTCAAG	TGCTTTTAA	GGCTTAGTGT	AAGTAATGAA	AATTGTTGTG	2100
TGTCTTTAT	CCAAACACAG	AAGAGAGGTG	GCTCGGCCTG	CATGTCTGTT	GTCTGCATGT	2160
AGACCAGGCT	GGCCTTGAAC	ACATTAATCT	GTCTGCCCT	GCTCCCTAA	TGCTGCGATT	2220
AAAGGCATGT	GCCACCACTG	CCCGGACTGA	TTTCTTCTT	TTTTTTTTT	TGGAAAATAC	2280
CTTTCTTCTT	TTTTCTCTCT	CTCTTCTTC	CTTCCCTTC	TTCTTCTAT	TCTTTTTTC	2340
TTTCTTTTTT	CTTTTTTTT	TTTTTTTAA	AATTTGCCTA	AGGTTAAAGG	TGTGCTCCAC	2400
AATTGCCTCA	GCTCTGCTCT	AATTCTCTTT	AAAAAAAAC	AAACAAAAAA	AAAACCAAAA	2460
CAGTATGTAT	GTATGTATAT	TTAGAAGAAA	TACTAATCCA	TTAATAACTC	TTTTTCCTA	2520
AAATTCATGT	CATTCTGTT	CCACAAAGTG	AGTTCCAGGA	CTTACCAAGAG	AAACCTGTG	2580
TTCAAATTTC	TGTGTTCAAG	GTCACCCCTGG	CTTACAAAGT	GAGTTCCAAG	TCCGATAGGG	2640
CTACACAGAA	AAACCATATC	TCAGAAAAAA	AAAAAGTTCC	AAACACACAC	ACACACACAC	2700
ACACACACAC	ACACACACAC	ACACACACAC	ACACACACAG	CGCGCCGCGG	CGATGAGGGG	2760
AAGTCGTGCC	TAAGATAAAAT	ATTTTCTGG	CCAAAGTGAA	AGCAAATCAC	TATGAAGAGG	2820
TAATCCTAGA	AAAAATAAAAT	ACAAACGGGC	TTTTTAATCA	TTCCAGCACT	TTTTAATT	2880
AACTCTGAAT	TTAGTCTTGG	AAAAGGGGGC	GGGTGTGGGT	GAGTGAGGGC	GAGCGAGCAG	2940
ACGGGCGGGC	GGGCGGGTGA	GTGGCCGGCG	GCGGTGGCAG	CGAGCACCAG	AAAACAACAA	3000
ACCCCAAGCG	GTAGAGTGT	TTAAAAATGA	GACCTAAATG	TGGTGGAACG	GAGGTGCGCG	3060
CCACCCCTCT	CTTCCACTGC	TTAGATGCTC	CCTTCCCCTT	ACTGTGCTCC	CTTCCCCTAA	3120
CTGTGCCTAA	CTGTGCCTGT	TCCCTCACCC	CGCTGATTG	CCAGCGACGT	ACTTTGACTT	3180
CAAGAACGAT	TTTGCCTGTT	TTCACCGCTC	CCTGTACATAC	TTTCGTTTT	GGGTGCCCGA	3240
GTCTAGCCCG	TTCGCTATGT	TCGGGCGGG	CGATGGGGAC	CGTTGTGCC	ACTCGGGAGA	3300
AGTGGTGGGT	GGGTACGCTG	CTCCGTCGTG	CGTGCCTGAG	TGCCGGAACC	TGAGCTCGGG	3360
AGACCCCTCG	GAGAGACAGA	ATGAGTGTAGT	GAATGTGGCG	GCGCGTGACG	GATCTGTATT	3420
GGTTTGTATG	GTTGATCGAG	ACCATTGTG	GGCGACACCT	AGTGGTGACA	AGTTCGGGA	3480
ACGCTCCAGG	CCTCTCAGGT	TGGTGACACA	GGAGAGGGAA	GTGCCTGTGG	TGAGGCAGC	3540
AGGGTGCACAG	GAGGCCGGC	AAGCAGGCCG	GAGCGTCTCG	GAGATGGGT	CGTGTAAAG	3600
GACGGTCTCT	AAACAAGGAGG	TCGTACAGGG	AGATGGCCAA	AGCAGACCGA	GTTGCTGTAC	3660
GCCCTTTGG	AAAAAAATGCT	AGGGTTGGTG	GCAACGTTAC	TAGGTGACCC	AGAAGGCTTA	3720
AGTCCTACCC	CCCCCCCCCT	TTTTTTTTT	TTTCCTCCAG	AAGCCCTCTC	TTGCCCCGT	3780
CACCGGGGGC	ACCGTACATC	TGAGGCCGAG	AGGACGCGAT	GGGCCCGGCT	TCCAAGCCGG	3840
TGTGGCTCGG	CCAGCTGGCG	CTTCGGGTCT	TTTTTTTTT	TTTTTTTTT	TTTCCTCCA	3900
GAAGCCTTGT	CTGTGCCTGT	CACCGGGGGC	GCTGTACTTC	TGAGGCCGAG	AGGACGCGAT	3960
GGGCCCCGGC	TTCCAAGCCG	GTGTGGCTG	GCCAGCTGGA	GCTTGGGTC	TTTTTTTTT	4020
TTTTTTTTT	TTTTTTCTC	CAGAAGCCTT	GTCTGTGCT	GTCACCGGGG	GCGCTGTACT	4080
TCTGAGGCCG	AGAGGACGCG	ATGGGTGGC	TTCCAAGCCG	ATGTGGCGGG	GCCAGCTGGA	4140
GCTTCGGGTT	TTTTTTTTC	CTCCAGAAGC	CCTCTCTGT	CCCCGTCACC	GGGGCGCTG	4200
TACTTCTGAG	GCCGAGAGGA	CGTGATGGC	CCGGGTTCCA	GGCGGATGTC	GCCCCGGTCAG	4260
CTGGAGCTT	GGATCTTTT	TTTTTTTTT	CCTCCAGAAG	CCCTCTCTTG	TCCCCGTCAC	4320
CGGGGGCACC	TTACATCTGA	GGGCGAGAGG	ACGTGATGGG	TCCGGCTTCC	AAGCCGATGT	4380

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GGCGGGGCCA	GCTGGAGCTT	CGGGTTTTT	TTTTTCCTC	CAGAAGCCCT	CTCTTGTCCC	4440
CGTCACCGGG	GGCGCTGTAC	TTCTGAGGCC	GAGAGGACGT	GATGGGCCCG	GGTCCAGGC	4500
GGATGTGCC	CGGTCAAGCTG	GAGCTTGGA	TCATTTTTT	TTTCCCTCC	AGAACGCCCTC	4560
TCTTGTCCCC	GTCACCGGGG	GCACCGTACA	TCTGAGGCCG	AGAGGACACG	ATGGGCCTGT	4620
CTTCCAAGCC	GATGTGCC	GGCCAGCTGG	AGCTTCGGGT	CTTTTTTTT	TTTTTCCTC	4680
CAGAACCTT	GTCTGTGCT	GTCACCCGGG	GCGCTGTACT	TCTGAGGCCG	AGAGGACGCG	4740
ATGGGCCCGG	CTTCCAAGCC	GGTGTGGCTC	GGCCAGCTGG	AGCTTCGGGT	CTTTTTTTT	4800
TTTTTTTTT	TTCCCTCCAGA	AACCTTGTCT	GTCGCTGTCA	CCCGGGGCGC	TTGTACTTCT	4860
GATGCCGAGA	GGACGCGATG	GGCCCCTCTT	CCAGGCCGAT	GTGGCCCGGT	CAGCTGGAGC	4920
TTTGGATCTT	TTTTTTTTT	TTTCCTCCA	GAAGCCCTCT	CTTGTCCCCG	TCACCGGGGG	4980
CACCTTACAT	CTGAGGCCTA	GAGGACACGA	TGGGCCCGGG	TTCCAGGCCG	ATGTGGCCCG	5040
GTCAGCTGGA	GCTTTGGATC	TTTTTTTTT	TTTCCTCCA	GAAGCCCTCT	TGTCCCCGTC	5100
ACCGGTGGCA	CTGTACATCT	GAGGCGGAGA	GGACATTATG	GGCCCGGCTT	CCAATCCGAT	5160
GTGGCCCGGT	CAGCTGGAGC	TTTGGATCTT	ATTTTTTTT	TAATTTTTTC	TTCCAGAACG	5220
CCTCTTGTCC	CTGTCACCGG	TGGCACGGTA	CATCTGAGGC	CGAGAGGACA	TTATGGGCC	5280
GGCTTCCAGG	CCGATGTGGC	CCGGTCAGCT	GGAGCTTGG	ATCTTTTTT	TTTTTTTTCT	5340
TTTTCCCTCC	AGAAGCCCTC	TCTGTCCCTG	TCACCGGGGG	CCCTGTACGT	CTGAGGCCGA	5400
GGGAAAGCTA	TGGGCGCGGT	TTTCTTCAT	TGACCTGTG	GTCTTATCAG	TTCTCCGGGT	5460
TGTCAAGGTC	GACCAGTTGT	TCCTTGAGG	TCCGGTTCTT	TTCGTTATGG	GGTCATTTTT	5520
GGGCCACCTC	CCCAGGTATG	ACTTCCAGGC	GTCGTTGCTC	GCCTGTCACT	TTCCCTCCCTG	5580
TCTCTTTAT	GCTTGTGATC	TTTCTATCT	GTTCCTATTG	GACCTGGAGA	TAGGTACTGA	5640
CACGCTGTCC	TTTCCCTATT	AACACTAAAG	GACACTATAA	AGAGACCCTT	TCGATTTAAG	5700
GCTGTTTGC	TTGTCCAGCC	TATTCTTTT	ACTGGCTTGG	GTCTGTGCG	GTGCCTGAAG	5760
CTGTCCCCGA	GCCACGCTTC	CTGCTTCCC	GGGCTTGCTG	CTTGCCTGTG	CTTGCTGTGG	5820
GCAGCTTGTG	ACAACTGGC	GCTGTGACTT	TGCTGCCTGT	CAGACGTTT	TCCCGATTTC	5880
CCCGAGGTGT	CGTTGTACA	CCTGTCCCGG	TTGGAATGGT	GGAGCCAGCT	GTGGTTGAGG	5940
GCCACCTTAT	TTCGGCTCAC	TTTTTTTTT	TTTTTTCTC	TTGGAGTCCC	GAACCTCCGC	6000
TCTTTCTCT	TCCCCTGCTT	TCTTCCACAT	GCCTCCCGAG	TGCATTTCTT	TTTGTTTTTT	6060
TTCTTTTTT	TTTTTTTTT	TTGGGGAGGT	GGAGAGTCCC	GAGTACTTCA	CTCCTGTCTG	6120
TGGTGTCAA	GTGTTCATGC	CACGTGCCTC	CCGAGTGCAC	TTTTTTTGT	GGCAGTCGCT	6180
CGTTGTGTT	TCTTGTCTG	TGTCTGCCG	TATCAGTAAC	TGTCTTGCCC	CGCGTGTAAAG	6240
ACATTCCAT	CTCGCTTGTT	TCTCCCGATT	GCGCGTCGTT	GCTCACTCTT	AGATCGATGT	6300
GGTGCTCCGG	AGTTCTCTTC	GGGCCAGGGC	CAAGCCGCGC	CAGGCGAGGG	ACGGACATT	6360
ATGGCGAATG	GCGGCCGCTC	TTCTCGTTCT	GCCAGCGGGC	CCTCGTCTCT	CCACCCCCATC	6420
CGTCTGCCGG	TGGTGTGTGG	AAGGCAGGGG	TGCGGCTCTC	CGGCCCGACG	CTGCCCGCG	6480
CGCACTTTC	TCAGTGGTTC	GCCTGGTCCT	TGTGGATGTG	TGAGGCGCCC	GGTTGTGCC	6540
TCACGTGTTT	CACTTTGGTC	GTGTCTCGCT	TGACCATGTT	CCCAGAGTCG	GTGGATGTGG	6600
CCGGTGGCGT	TGCATACCC	TCCCCTCTGG	TGTGTGCACG	CGCTGTTCT	TGTAAGCGTC	6660
GAGGTGCTCC	TGGAGCGTT	CAGGTTTGTC	TCCTAGGTGC	CTGCTTCTGA	GCTGGTGGTG	6720
GCGCTCCCCA	TTCCCTGGTG	TGCCTCCGGT	GCTCCGCTG	GCTGTGTGCC	TTCCCGTTTG	6780
TGTCTGAGAA	GCCCCTGAGA	GGGGGGTCGA	GGAGAGAAGG	AGGGCAAGA	CCCCCCTTCT	6840
TCGTCGGGTG	AGGCGCCAC	CCCCTCGACTA	GTACGCCGT	GCGTAGGGCT	GGTGTGAGC	6900
GGTCGCGGCT	GGGGTTGGAA	AGTTCTCGA	GAGACTCATT	GCTTCCCGT	GGGGAGCTTT	6960
GAGAGGCCTG	GCTTTCGGGG	GGGACCGGGT	GCAGGGTCTC	CCCTGTCCGC	GGATGCTCAG	7020
AATGCCCTG	GAAGAGAAC	TTCCTGTTGC	CGCAGACCCC	CCCCTCGGGT	CGCCCGCGTG	7080
TTGGTCTCT	GGTTTCCCTG	TGTGCTCGTC	GCATGCATCC	TCTCTCGGTG	GCCGGGGCTC	7140
GTCGGGGTTT	TGGGTCCGTC	CCGCCCTCAG	TGAGAAAGTT	TCCTCTCTA	GCTATCTTCC	7200
GGAAAGGGTG	CGGGCTTCTT	ACGGTCTCGA	GGGGTCTCTC	CCGAATGGTC	CCCTGGAGGG	7260
CTCGCCCCCT	GACCGCCTCC	CGCGCGCGCA	CGTCTTGCTC	TCTCGTCTAC	CGCGGCCCGC	7320
GGCCTCCCCG	CTCCGAGTTC	GGGGAGGGAT	CACGCCGGGC	AGAGCCTGTC	TGTCGTCTG	7380
CCGTTGCTGC	GGAGCATGTG	GCTCGGCTTG	TGTGGTTGGT	GGCTGGGGAG	AGGGCTCCGT	7440
GCACACCCCC	CGTGTGCGGT	ACTTTCCCTC	CCTCCCTGAGG	GCCGCCGTGC	GGACGGGGTG	7500
TGGGTAGGCG	ACGGTGGCT	CCCCTGGTCCC	CACCCGTCTT	CCCCTGCC	ACCCGTGCCT	7560
TCCGTCGCGT	CGGTCCCTCT	CGCTCGCGTC	CACGACTTTG	GCCGCTCCCG	CGACGGCGGC	7620
CTGCGCCGCG	CGTGGTGCCT	GCTGTGTGCT	TCTCCTGGCTG	TGTGGTTGTG	TCGCTCGGCC	7680
CCCCCTTCC	CGCGGCCAGCG	TTCCCACGGC	TGGCGAAATC	GCGGGAGTCC	TCCTTCCCC	7740
CCTCGGGGTC	GAGAGGGTCC	GTGTCTGGCG	TTGATTGATC	TCGCTCTCGG	GGACGGGACC	7800
GTTCTGTGGG	AGAACGGCTG	TTGGCCCGT	CCGGCGCGAC	GTCGGACGTG	GGGACCCACT	7860
GCCGCTCGGG	GGTCTTCGTC	GGTAGGCATC	GGTGTGTGCG	CATCGGTCTC	TCTCTCGTGT	7920
CGGTGTGCC	TCCTCGGGCT	CCCGGGGGGC	CGTCGTGTT	CGGGTCGGCT	CGGCGCTGCA	7980
GGTGTGGTGG	GAATGCTCAG	GGGAGTGGTG	CAGTGTGATT	CCCGCCGGTT	TTGCTCGCG	8040
TGCCCTGACC	GGTCCGACGC	CCGAGCGGT	TCTCGGTCCC	TTGTGAGGAC	CCCCTTCCGG	8100
GAGGGGCCCG	TTTCGGCCGC	CCTTGGCGTC	GTCGCCGGCC	CTCGTTCTGC	TGTGTGTTTC	8160
CCCCCTCCCC	GCTCGCCGCA	GGCGGTCTT	TTTCCTCTCT	CCCCCCCTCT	CCTCTGACTG	8220
ACCCGTGGCC	GTGCTGTCGG	ACCCCCCGCA	TGGGGCGCGC	CGGGCACGTA	CGCGTCCGGG	8280
CGGTACCCGG	GGTCTTGGGG	GGGGGCCGAG	GGGTAAGAAA	GTCGGCTCGG	CGGGCGGGAG	8340
GAGCTGTGGT	TTGGAGGGCG	TCCCCGGCCCC	CGGGCCGTGG	CGGTGTCTTG	CGCGGTCTTG	8400

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GAGAGGGCTG	CGTGCAGGG	GAAAAGGTTG	CCCCCGAGG	GCAAAGGAA	AGAGGCTAGC	8460
AGTGGTCATT	GTCCCGACGG	TGTGGTGGTC	TGTTGCCGA	GGTGCCTCG	GGGGGCTCGT	8520
CCGGCCCTGT	CGTCCGTCGG	GAAGGCGCGT	GTTGGGGCT	GCCGGAGTGC	CGAGGTGGGT	8580
ACCCCTGGCGG	TGGGATTAAC	CCCGCGCGC	TGTCCCGGTG	TGGCGGTGGG	GGCTCCGGTC	8640
GATGTCTACC	TCCCTCTCCC	CGAGGTCTCA	GGCCTCTCC	GCGCGGGCTC	TCGGCCCTCC	8700
CCTCGTTCCCT	CCCTCTCGCG	GGGTTCAAGT	CGCTCGTCGA	CCTCCCCTCC	TCCGTCTTC	8760
CATCTCTCGC	GCAATGGCGC	CGCCCGAGTT	CACGGTGGGT	TCGTCTCCG	CCTCCGCTTC	8820
TCGCCGGGGG	CTGGCCGCTG	TCCGGTCTCT	CCTGCCGAC	CCCCGTTGGC	GTGGTCTTCT	8880
CTCGCCGGCT	TCGCGGACTC	CTGGCTTCGC	CCGGAGGGTC	AGGGGGCTTC	CCGGTTCCCC	8940
GACGTTGCCG	CTCGCTGCTG	TGTGCTTGGG	GGGGGCCCGC	TGCGGCCTCC	GCCCAGCCGT	9000
GAGCCCCCTGC	CGCACCCGCC	GGTGTGCGGT	TTCGCGCCGC	GGTCAGTTGG	GCCCTGGCGT	9060
TGTGTGCGGT	CGGGAGCGTG	TCCGCCTCGC	GGCGGCTAGA	CGCGGGTGTG	GCCGGGCTCC	9120
GACGGGTGGC	CTATCCAGGG	CTCGCCCCCG	CCGACCCCCG	CCTGCCGTC	CCGGTGGTGG	9180
TCGTTGGTGT	GGGGAGTGAA	TGGTGCTACC	GGTCATTCCC	TCCCGCGTGG	TTTGACTGTC	9240
TCGCCGGTGT	CGCGCTTCTC	TTTCCGCCAA	CCCCCACGCC	AACCCACAC	CCTGCTCTCC	9300
CGGCCCGGTG	CGGTGACGT	TCCGGCTCTC	CCGATGCCGA	GGGGTTCGGG	ATTGTGCCG	9360
GGGACGGAGG	GGAGAGCGGG	TAAGAGAGGT	GTCGGAGAGC	TGTCCCGGGG	CGACGCTCGG	9420
GTTGGCTTTG	CCGCGTGCCT	GTGCTCGCGG	ACGGGTTTTG	TCGGACCCCCG	ACGGGGTCGG	9480
TCCGGCCGCA	TGCACTCTCC	CGTTCCCGCG	GAGCGCCCGC	CCGGCTCACC	CCCGGTTTGT	9540
CCTCCCGCGA	GGCTCTCCGC	CGCCGCCGCC	TCCTCCTCCT	CTCTCGCGCT	CTCTGTCCCC	9600
CCTGGTCCTG	TCCCACCCCC	GACGCTCCGC	TCGCGCTTCC	TTACCTGGTT	GATCCTGCCA	9660
GGTAGCATAT	GCTTGTCTCA	AAGATTAAGC	CATGCATGTC	TAAGTACGCA	CGGCCGGTAC	9720
AGTAAAATG	CGAATGGCTC	ATTAAATCAG	TTATGGTCC	TTTGGTGCCT	CGCTCCTCTC	9780
CTACTTGGAT	AACTGTGGTA	ATTCTAGAGC	TAATACATGC	CGACGGGCGC	TGACCCCCCT	9840
TCCCAGGGGG	GGATGCGTGC	ATTTATCAGA	TCAAAACCAA	CCCGGTGAGC	TCCCTCCCAG	9900
CTCCGGCCGG	GGGTCGGGCG	CCGGCGGCTT	GGTGACTCTA	GATAACCTCG	GGCCGATCGC	9960
ACGCCCCCG	TGGCGCGAC	GACCCATTG	AACGTCCTGCC	CTATCAACTT	TCGATGGTAG	10020
TCGCCGTGCC	TACCATGGTG	ACCACGGGTG	ACGGGGAATC	AGGGTTCGAT	TCCGGAGAGG	10080
GAGCCTGAGA	AACGGCTACC	ACATCCAAGG	AAGGCAGCAG	GCGCGCAAAT	TACCCACTCC	10140
CGACCCGGGG	AGGTAGTGAC	GAAAAATAAC	AATACAGGAC	TCTTCGAGG	CCCTGTAATT	10200
GGAATGAGTC	CACTTAAAT	CCTTAACGA	GGATCCATTG	GAGGGCAAGT	CTGGTGCCAG	10260
CAGCCGCGGT	AATTCCAGCT	CCAATAGCGT	ATATTAAAGT	TGCTGCAGTT	AAAAAGCTCG	10320
TAGTTGGATC	TTGGGAGCGG	GCGGGCGGTG	CGCCGCGAGG	CGAGTCACCG	CCCGTCCCCG	10380
CCCCTGCGCT	CTCGCGCC	CCTCGATGCT	CTTAGCTGAG	TGTCCCGCGG	GGCCCGAAGC	10440
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GCAAGACCGA	CCAGAGCGAA	AGCATTGCG	AAGAATGTTT	TCATTAATCA	AGAACGAAAG	10680
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GCGTCAGCC	ACCCGAGATT	GAGCAATAAC	AGGTCTGTGA	TGCCCTTAGA	TGTCCGGGGC	11160
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ACCGCCCCGTC	GCTACTACCG	ATTGGATGGT	TTAGTGAGGC	CCTCGGATCG	GCCCCGCCGG	11400
GGTCGGCCCA	CGGCCCTGGC	GGAGCGCTGA	GAAGACGGTC	GAACCTGACT	ATCTAGAGGA	11460
AGTAAAAGTC	GTAACAAGGT	TTCCGTAGGT	GAACCTGCGG	AAGGATCATT	AAACGGGAGA	11520
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CCCATCCCCG	CCGCGGCTCT	GGCTTTCTA	CGTTGGCTGG	GGCGGTTGTC	GCCTGTGGGG	11940
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CCCGAGGCGG	CGGTGCGTGTG	GGGGGGTGGGA	TGTCTGGAGC	CCCCTCGGGC	GCCGTGGGGG	12240
CCCGACCCGC	GCCGCCGGCT	TGCCCAGATT	CCGCGGGCTCG	GTCCTGTGCG	TGCCGGTCGT	12300
GGGTTCCCGT	GTCGTTCCCG	TGTTTTTCCG	CTCCCGACCC	TTTTTTTTC	CTCCCCCCCCA	12360
CACGTGTCTC	GTTTCGTTCC	TGCTGGCCGG	CCTGAGGCTA	CCCCTCGGTC	CATCTGTTCT	12420

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CCTCTCTCTC	CGGGGAGAGG	AGGGCGGTGG	TCGTTGGGG	ACTGTGCCGT	CGTCAGCACC	12480
CGTGAGTCG	CTCACACCCG	AAATACCGAT	ACGACTCTA	CGGGTGGATC	ACTCGGCTCG	12540
TGCGTCGATG	AAGAACGCAG	CTAGCTGCGA	GAATTAAATGT	GAATTGCAGG	ACACATTGAT	12600
CATCGACACT	TCGAACGCAC	TTGCGGCCCG	GGGTTCTCC	CGGGGCTACG	CCTGTCTGAG	12660
CGTCGGTTGA	CGATCAATCG	CGTCACCCCG	TGCGGTGGGT	GCTGCGCGGC	TGGGAGTTTG	12720
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TGGGAACCCA	CCCGCGCCCC	GTGGCGCCCG	GGGGTGGGCG	CGTCCGCATC	TGCTCTGGTC	13020
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GCCAATGGG	CGAAGCTACC	ATCTGTGGG	TTATGACTGA	ACGCCTCTAA	GTCAGAATCC	18120
GCCAAGCGG	AACGATAACGG	CAGCGCCGAA	GGAGCCTCGG	TTGGCCCCG	ATAGCCGGGT	18180
CCCCGTCCG	CCCGCTCGC	GGGTCCC	CGTCGCCCC	CGCGGCGCG	GGGTCTCCC	18240
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ATTGAACTC	AGGACCCTGG	CAGGTCAACT	GGAAAACGTG	TTTCTATAT	ATATAAATAG	20640
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TGCTTTTTT	TTTCTTCTGA	GACAGTATT	CTCTGTGTAA	CCTGGTGCCC	TGAAACTCAC	20760
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TACCTGAAGT	CCCTGAGTGA	TGATTTCCT	GTGAATTC			22118

(2) INFORMATION FOR SEQ ID NO:17:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 42999 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

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CCTCTCCCCG	CCCGCCGGCC	GGCGTGTGGG	AAGGCCTGGG	GTGCGGACCC	CGGCCCGACC	600
TCGCCGTCCC	GCCCAGCCGC	TTCGCTTCGC	GGGTGCGGGC	CGGCGGGTC	CTCTGACGCG	660
GCAGACAGCC	CTGCCTGTCG	CCTCCAGTGG	TTGTCGACTT	GCGGGCGGC	CCCCTCCGCG	720
GCGGTGGGGG	TGCCGTCCCG	CCGGCCCGTC	GTGCTGCCCT	CTCGGGGGGG	GTTCGCGCA	780
GCGTCGGCTC	CGCCTGGGCC	CTTGCAGGTGC	TCCTGGAGCG	CTCCGGGTTG	TCCCTCAGGT	840
GCCCCAGGCC	GAACGGTGGT	GTGTCGTTCC	CGCCCCCGGC	GCCCCCTCCT	CCGGTCGCCG	900
CCGCGGTGTC	CGCGCGTGGG	TCCTGAGGGG	GCTCGTCGGT	GTGGGGTTCG	AGGCGGTTTG	960
AGTGAGACGA	GACGAGACGC	GCCCCTCCCA	CGCGGGGAAG	GGCGCCCGCC	TGCTCTCGGT	1020
GAGCGCACGT	CCCCTGCTCC	CCTCTGGCGG	GTGCGCGCGG	CCCGTGTGAG	CGATCGCGGT	1080
GGGTTCGGGC	CGGTGTGACG	CGTGCAGCCG	CCGGCCCGCC	AGGGGCTGCC	GTTCTGCCTC	1140
CGACCGGGTCG	TGTGTGGGTT	GACTTCGGAG	GCGCTCTGCC	TCGGAAGGAA	GGAGGTGGGT	1200
GGACGGGGGG	GCCTGGTGGG	GTTGCGCGCA	CGCGCGCACC	GGCCGGGCC	CCGCCCTGAA	1260
CGCGAACGCT	CGAGGGTGGCC	CGCGCGAGGT	GTTTCCTCGT	ACCGCAGGGC	CCCCTCCCTT	1320

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CCCCAGGGGT	CCCTCGGC	CTCTCGGGC	CCGAGGGAGGA	GCGGCTGGCG	GGTGGGGGGA	1380
GTGTGACCCA	CCCTCGGT	GAAGAGCCTT	CTCTAGCGAT	CTGAGAGGCG	TGCCTTGGG	1440
GTACCGGATC	CCCCGGGCCG	CCGCCTCTGT	CTCTGCCTCC	TTATGGTAG	CGCTGCCGTA	1500
GCGACCCGCT	CGCAGAGGAC	CCTCCTCCGC	TTCCCCCTCG	ACGGGGTTGG	GGGGGAGAAG	1560
CGAGGGTTCC	GCCGGCCACC	GCGGTGGTGG	CCGAGTGC	CTCGTCGCCT	ACTGTGGCCC	1620
GCGCCTCCCC	CTTCCGAGTC	GGGGGAGGAT	CCCGCCGGGC	CGGGCCCGGC	GCTCCCACCC	1680
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CGCGTGACCC	CCTCCGTC	CGAGTCGGCT	CTCCGCCCGC	TCCCGTGC	AGTCGTGACC	1800
GGTGCCGACG	ACCGCGTTG	CGTGGCACGG	GGTCGGGCC	GCCTGGCCCT	GGGAAAGCGT	1860
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GTGGCGGGGC	CCCGGGGCTC	GCGAGGCGGT	TCTCGGTGGG	GGCCGAGGGC	CGTCCGGCGT	2040
CCCAGGGGGG	GCGCCGCGGG	ACCGCCCTCG	TGTCTGTGGC	GGTGGGATCC	CGGGGCCGTG	2100
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GCCGCCCGCC	GATCCTCTTC	TTCCCCCGA	GCGGCTCAC	GGCTTCACGT	CCGTTGGTGG	2280
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CCC GGCGTCC	GGGTCCCCCG	GCGCGCGCCT	TGGGGACCGG	GTCGGTGGCG	CGCCGCGTGG	2400
GGCCC GGTTG	GCTTCCCAGA	GGGTTCCGGG	GGTCGGCCTG	CGGCGCGTGC	GGGGGAGGAG	2460
ACGGTTCCGG	GGGACCGGCC	GCGGCTGC	CGGCGCGGT	GGTGGGGGA	GCCGCCGGGA	2520
TCGCCGAGGG	CCGGTCGGCC	GCCCCGGGTG	CCCCCGCGT	CCGCCGGCGG	CGGTGAGGCC	2580
CCGCGCGTGT	GTCCC GGCTG	CGGTGGCGC	CGCTCGAGGG	GTCCCCGTGG	CGTCCCCTTC	2640
CCC GCGGCC	GCCTTCTCG	GCGCTTCCCC	GTCGCCCCGG	CCTCGCCCGT	GGTCTCTCGT	2700
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CGGGCCTGCC	GCGGCCCTTC	CCCGAGGCGT	CCGTCCCAGG	CGTCGGCGTC	GGGGAGAGCC	2820
CGTCCTCCCC	CGGTGGCGTC	GCCCCGTTG	GCGCGCGCGT	GCGCCCGAGC	CGGGCCCGGT	2880
GGTCCCTCCC	GGACAGGCGT	TCGTGCACG	TGTGGCGTGG	GTCGACCTCC	GCCTTGCCGG	2940
TCGCTGCC	TCTCCCCGGG	TCGGGGGGTG	GGGCCCGGGC	CGGGGCCTCG	GCCCCGGTGC	3000
CTGCCTCCCG	TCCC GGCGGG	GGGCGGGCGC	GCGGCCCGGC	CTCGTGC	CTCCCTTGGC	3060
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Cmt

CCTGCCCTT	GTACACACCG	CCCCTCGCTA	CTACCGATTG	GATGGTTAG	TGAGGCCCTC	5400
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AAAAATAAAT	ACATAAATAA	ATACATACAT	ACATACATAC	ATACATACAT	ACATACATAC	38700
ATAAATTAAA	ATAAATAAAT	AAAATAAAAT	AAATAAATGG	GCCCTGCGCG	GTGGCTCAAG	38760
CCTGTCATCC	CCTCACCTTG	GGAGGCCAAG	GCCGGTGGAT	CAAGAGGCAG	TCAGACCAAC	38820
AGGGCCAGTA	TGGTGAAACC	CCGTCTCTAC	TCACAATACA	CAACATTAGC	CGGGCGCTGT	38880
GCTGTGCTGT	ACTGTCTGTA	ATCCCAGCTA	CTCGGGAGGC	CGAGCTGAGG	CAGGAGAATC	38940
GCTTGAACCT	GGGAGGCGGA	GGTTGCAGTG	AGCCGAGATC	GCGCCACTGC	AACCCAGCCT	39000
GGGCGACAGA	GCGAGACTCC	GTCTCCAAAAA	AATGAAAATG	AAAATGAAAC	GCAACAAAAT	39060
AATTAAAAAG	TGAGTTCTG	GGGAAAAAGA	AGAAAAGAAA	AAAGAAAAAA	ACAACAAAAC	39120
AGAACAAACCC	CACCGTGACA	TACACGTACG	CTTCTCGCCT	TTCGAGGCCT	CAAACACGTT	39180
AGGAATTATG	CGTGATTCT	TTTTTTAAT	TCATTTTATG	TTATTATCAT	GATTGATGTT	39240
TCGAGACGGA	GTCTCGGAGG	CCCGCCCTCC	CTGGTTGCC	AGACAACCCC	GGGAGACAGA	39300
CCCTGGCTGG	GCCCGATTGT	TCTTCTCCTT	GGTCAGGGGT	TTCCTTGTCT	TTCTTCGTGT	39360
CTTTAACCCG	CGTGGACTCT	TCCGCCTCGG	GTTCGACAGA	TGGCAGCTCC	ACTTTAGGCC	39420
TTGTTGTTGT	TGGGGACTTT	CCTGATTCTC	CCCAGATGTA	GTGAAAGCAG	GTAGATTGCC	39480
TTGCCTGGCC	TTGCCTGGCC	TTGCCTTTTC	TTTCTTCTT	TCTTCTTTA	TTACTTTCTC	39540
TTTTTCTTCT	TCTTCTTCTT	CTTTTTTTG	AGACAGAGTT	TCACTCTTGT	TGCCAGGCT	39600
AGAGGGCAAT	GGCGCGATCT	CGGCTCACCG	CACCCCTCCGC	CTCCCAGGTT	CAAGCGATT	39660
TCTTGCCTCA	GCCTCCTGAT	TAGCTGGAT	TACAGGCATG	GGCCACCGTG	CTGGCTGATG	39720
TTTGTACTTT	TAGTAGAGAC	GGTGTTCCTC	CATGTTGGTC	AGGCTGGTCT	CCCACCTCCA	39780
ACCTCAGGTG	GTCCGCCTGC	CTTAGCCTCC	CAAAGTGTG	GGATGACAGG	CGTGCAACCG	39840
CGCCCCAGCCT	CTCTCTCTCT	CTCTCTCTCT	CTCGCTCGCT	TGCTTGCTTG	CTTTCGTGCT	39900
TTCTTGCTT	CCCGTTTCT	TGCTTCTTT	CTTCTTTTCG	TTTCTTCAT	GCTTGCTTTC	39960
TTGCTTGCTT	GCTTGCTTTC	GTGCTTCTT	GCTTTCTGT	TTTCTTTCTT	TCTTTCTTTC	40020
TTTCTTCTT	TTGTTCTT	CTTGCTTGCT	TTCTTGCTTG	CTTGCTTGCT	TTCGTGCTTT	40080
CTTGCTTCC	TGTTTCTT	CTTCTTTCT	TTCTTTCTT	TCTTTCTTG	TTGCTTTCC	40140
GCTTGCTTGC	TTTCGTGCTT	TCTTGTTCCT	TCGATTTCTT	TCTTTCTTT	GTTCCTTCC	40200
TGCTTGCTT	CTTGCTTGCT	TGCTTTCGTG	CTTCTTGCTT	TCCTGTTTC	TTTCTTTCTT	40260
TCTTCTTCTT	GTTCCTTCT	TGCTTGCTT	CTTGCTTGCT	TGCTTCGTG	CTGTCTTGT	40320
TCTCGATTT	TTTCTTCTT	TTGTTCTT	CCTGCTTGCT	TTCTTGCTTG	ATTGCTTCG	40380
TGCTTCTTG	CTTTCTTGTT	TTCTTCTT	CTTTGTTTC	TTTCTTTCTT	GCTTCCTTGT	40440
TTTCTTGCTT	TCTTGCTTG	TTGCTTTCGT	GCTTTCTTGT	TTTCTTGCTT	TCTTTCTTT	40500
GTTTCTTCT	TGCTTGCTT	CTTGCTTCCT	TGTTTCTTG	CTTTCTTGCT	TGCTTGCTTT	40560
CGTGCTTCT	TTCTTGCTT	CTTTCTT	TTTCTTTCT	TTTCTTTCTT	TTCTTGCTTT	40620
CTTTCTTCT	ATCATCATCT	TTCTTCTT	CCTTTCTTTC	TTTCTTTCTT	TCTATCTTTC	40680
TTTCTTCTT	TCTTTCTT	TTTCTTCTT	TCTTTCTGTT	TCGTCCTTT	GAGACAGAGT	40740
TTCACCTCTG	TTTCCACGGC	TAGAGTGCAA	TGGCGCGATC	TTGGCTCACC	GCACCTTCCG	40800
CCTCCCGGGT	TCGAGCGCTT	CTCCTGCCTC	CAGCCTCCCG	ATTAGCGGGG	ATTGACAGGG	40860
AGGCACCCCC	ACGCCTGGCT	TGGCTGATGT	TTGTGTTTT	AGTAGGCACG	CCGTGTCTCT	40920
CCATGTTGCT	CAGGCTGGTC	TCCAACCTCCC	GACCTCTGT	GATGCGCCCA	CCTCGGCCTC	40980
TCGAAGTGCT	GGGATGACGG	GCGTGACGAC	CGTGCCCCGGC	CTGTTGACTC	ATTTCGCTTT	41040
TTTATTCTT	TCGTTTCCAC	GCGTTTACTT	ATATGTATTA	ATGAAACGT	TTCTGTACGC	41100
TTATATGCAA	ACAACGACAA	CGTGTATCTC	TGCATTGAAT	ACTCTTGCCT	ATGGTAAATA	41160
CGTATCGGTT	GTATGAAAT	AGACTTCTGT	ATGATAGATG	TAGGTGTCTG	TGTTATACAA	41220
ATAAAATACAC	ATCGCTCTAT	AAAGAAGGGA	TCGTGATAA	AGACGTTTAT	TTTACGTATG	41280
AAAAGCGTCG	TATTTATGTG	TGTAAATGAA	CCGAGCGTAC	GTAGTTATCT	CTGTTTCTT	41340
TCTTCCTCTC	CTTCGTGTTT	TTCTTCTT	CTTTCTTCTT	TTCTCTCCTT	CTTTAGGTTT	41400
TTCTTCCTCT	CTTCCTTCC	TTCTTCTT	CTTTCTGTCC	TTTTTCTT	CGTGCTTTAT	41460
TTCTCTTCTG	TTCCCTGTGT	TTCTTCTT	TTTCTTCTT	CTCTGTTCT	TTTTCCCTTC	41520

TTTCCTTCGT	TTCTTTCCCTC	ATTCTTCCTC	TCTTTTCGT	TGTTTCTTC	CTTCCCCTCT	41580
GTCTTTAAA	AAATTGGAGT	GTTTCAGAAG	TTTACTTTGT	GTATCTACGT	TTTCTAAATT	41640
GTCTCTCTTT	TCTCCATTTC	CTTCCTCCCT	CCCTCCCTCC	CTCCCTGCTC	CCTCCCTCC	41700
CTCCTTCCT	TTCGCCATCT	GTCTCTTTC	CCCACTCCCC	TCCCCCGTC	TGTCTCTGCG	41760
TGGATTCCGG	AAGAGCCTAC	CGATTCTGCC	TCTCCGTGTG	TCTGCAGCGA	CCCCGCGACC	41820
GAGTCCTTGT	GTGTTCTTC	TCCCTCCCTC	CCTCCCTCCC	TCCCTCCCTC	CCTCCCTGCT	41880
TCCGAGAGGC	ATCTCCAGAG	ACCGCGCCGT	GGGTTGTCTT	CTGACTCTGT	CGCGGTCGAG	41940
GCAGAGACGC	GTTTTGGGCA	CCGTTTGTGT	GGGGTTGGGG	CAGAGGGGCT	GCCTTTTCGG	42000
CCTCGGGAAG	AGCTTCTCGA	CTCACGGTT	CGCTTTCGCG	GTCCACGGGC	CGCCCTGCCA	42060
GCCGGATCTG	TCTCGCTGAC	GTCCGGGGCG	GTTGTGGGGC	TCCATCTGGC	GGCCGCTTG	42120
AGATCGTGCT	CTCGGCTTCC	GGAGCTGCGG	TGGCAGCTGC	CGAGGGAGGG	GACCGTCCCC	42180
GCTGTGAGCT	AGGCAGAGCT	CCGGAAAGCC	CGCGGTCGTC	AGCCCGGCTG	GCCCGGTGGC	42240
GCCAGAGCTG	TGGCCGGTCTG	CTTGTGAGTC	ACAGCTCTGG	CGTGCAGGTT	TATGTGGGG	42300
AGAGGCTGTC	GCTGCGCTTC	TGGGCCCGCG	GCAGGGCGTGG	GGCTGCCCGG	GCCCGTCGAC	42360
CAGCGCGCCG	TAGCTCCCGA	GGCCCGAGCC	GCGACCCGGC	GGACCCGCCG	CGCGTGGCGG	42420
AGGCTGGGGA	CGCCCTTCCC	GGCCCGGTCTG	CGGTCCGCTC	ATCCTGGCCG	TCTGAGGCGG	42480
CGGCCGAATT	CGTTTCCGAG	ATCCCCGTGG	GGAGCCGGGG	ACCGTCCCAC	CCCCGTCCCC	42540
CGGGTGCCGG	GGAGCGGTCC	CCGGGCCGGG	CCGCGGTCCC	TCTGCCCGA	TCCTTTCTGG	42600
CGAGTCCCCG	TGGCCAGTCG	GAGAGCGCTC	CCTGAGCCGG	TGCGGCCCGA	GAGGTCGCGC	42660
TGGCCGGCCT	TCGGTCCCTC	GTGTGTCCCCG	GTCGTAGGAG	GGGCCGGCCG	AAAATGCTTC	42720
CGGCTCCCGC	TCTGGAGACA	CGGGCCGGCC	CCTGCGTGTG	GCCAGGGCGG	CCGGGAGGGC	42780
TCCCCGGCCC	GGCGCTGTCC	CCGCGTGTGT	CCTTGGGTTG	ACCAGAGGGA	CCCCGGGCGC	42840
TCCGTGTGTG	GCTGCGATGG	TGGCGTTTTT	GGGGACAGGT	GTCCGTGTCC	GTGTCGCGCG	42900
TCGCCTGGGC	CGGCGGGCGT	GTCGGTGACG	CGACCTCCCG	GCCCCGGGGG	AGGTATATCT	42960
TCGCTCCGA	GTCGGCAATT	TTGGGCCGCC	GGGTTATAT			42999

(2) INFORMATION FOR SEQ ID NO:18:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 175 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

CTCCCGCGCG	GCCCCCGTGT	TCGCCGTTC	CGTGGCGCGG	ACAATGCGGT	TGTGCGTCCA	60
CGTGTGCGTG	TCCGTGCAGT	GCCGTTGTGG	AGTGCCTCGC	TCTCCTCCTC	CTCCCCGGCA	120
GGGTTCCAC	GGTTGGGGAC	CACCGGTGAC	CTCGCCCTCT	TCGGGCCTGG	ATCCG	175

(2) INFORMATION FOR SEQ ID NO:19:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 755 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

GGTCTGGTGG	GAATTGTTGA	CCTCGCTCTC	GGGTGCGGCC	TTTGGGGAAC	GGCGGGGTG	60
GTCGTGCCCG	GCGCCGGACG	TGTGTGGGG	CCCACTTCCC	GCTCGAGGGT	GGCGGTGGCG	120
GCGGCGTTGG	TAGTCTCCCG	TGTTGCGTCT	TCCCAGGGCTC	TTGGGGGGGG	TGCCGTGTT	180
TTCGGGGCCG	GCCTTGCTTG	GCTTACGCAG	GCTTGGTTG	GGACTGCCTC	AGGAGTCGTG	240

GGCGGTGTGA	TTCCCGCCGG	TTTGCCCTCG	CGTCTGCCCTG	CTTGCCTCG	GGTTGCTTG	300
GTTCGTGTCT	CGGGAGCGGT	GGTTTTTTT	TTTTTCGGGT	CCCAGGGAGA	GGGGTTTTTC	360
CGGGGGACGT	TCCCCTCGCC	CCCTGCCGCC	GGTGGGTTTT	CGTTTCGGGC	TGTGTTCGTT	420
TCCCCCTCCC	CGTTTCGCCG	TCGGTTCTCC	CCGGTCGGTC	GGCCCTCTCC	CCGGTCGGTC	480
GCCCCGGCGT	GCTGCCGGAC	CCCCCCTTCT	GGGGGGGATG	CCCAGGCACG	CACCGCGTCCG	540
GGCGGCCACT	GTGGTCCGGG	AGCTGCTCGG	CAGGCGGGTG	AGCCAGTTGG	AGGGGCGTCA	600
TGCCCCCGCG	GGCTCCCCTG	GCCGACGCCG	CGTGTCTTT	GGGGGGGCCT	GTGCGTGCCTG	660
GAAAGGCTGCG	CACGTTGTCG	GTCCTTGCCTA	GGGAAAGAGG	CTTTTTTTT	TTAGGGGGTC	720
GTCCTTCGTC	GTCCCGTCGG	CGGTGGATCC	GGCCT			755

(2) INFORMATION FOR SEQ ID NO:20:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 463 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA  
 (iii) HYPOTHETICAL: NO  
 (iv) ANTISENSE: NO  
 (v) FRAGMENT TYPE:  
 (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

GGCCGAGGGTG	CGTCTGCCGG	TTGGGGCTCG	TCCGGCCCCG	TCGTCCCTCCG	GGAAGGCCTT	60
TAGCGGGTAC	CGTCGCCCGC	CCGAGGTGGG	CGCACGTCGG	TGAGATAACC	CCGAGCGTGT	120
TTCTGGTTGT	TGGCGGCCGGG	GGCTCCGGTC	GATGTCTTCC	CCTCCCCCTC	TCCCCGAGGC	180
CAGGTCAAGCC	TCCGCCTGTG	GGCTTCGTG	GCCGTCTCCC	CCCCCCTCAC	GTCCCTCGCG	240
AGCGAGCCCG	TCCGTTCGAC	CTTCCTTCCG	CCTTCCCCCC	ATCTTCCGC	GCTCCGTTGG	300
CCCCGGGGTT	TTCACGGCGC	CCCCCACGCT	CCTCCGCCTC	TCCGCCCGTG	GTGGGACGC	360
CTGGTTCCGG	TCTCCCCGCC	AAACCCCGGT	TGGGTGGTC	TCCGCCCGCG	GCTTGCTCTT	420
CGGGTCTCCC	AACCCCCGGC	CGGAAGGGTT	CGGGGGTTCC	GGG		463

(2) INFORMATION FOR SEQ ID NO:21:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 378 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA  
 (iii) HYPOTHETICAL: NO  
 (iv) ANTISENSE: NO  
 (v) FRAGMENT TYPE:  
 (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

GGATTCTTCA	GGATTGAAAC	CCAAACCGGT	TCAGTTTCCCT	TTCCGGCTCC	GGCCGGGGGG	60
GGCGGCCCG	GGCGGTTTGG	TGAGTTAGAT	AACCTCGGGC	CGATCGCACG	CCCCCCGTGG	120
CGGCGACGAC	CCATTCAAC	GTCTGCCCTA	TCAACTTCTG	ATGGTAGTCG	ATGTGCCTAC	180
CATGGTGACC	ACGGGTGACG	GGGAATCAGG	GTTCGATTCC	GGAGAGGGAG	CCTGAGAAC	240
GGCTTACCAACA	TCCAAGGAAG	GCAGCAGGCG	CGCAAATTAC	CCACTCCCGA	CCCAGGGAGG	300
TAGTGACGAA	AAATAACAAT	ACAGGACTCT	TTCGAGGCC	TGTAATTGGA	ATGAGTCCAC	360
TTTAAATCCT	TTAACGAG					378

(2) INFORMATION FOR SEQ ID NO:22:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 378 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

GATCCATTGG	AGGGCAAGTC	TGGTGCCAGC	AGCCGCGGTA	ATTCCAGCTC	CAATAGCGTA	60
TATTAAGTT	GCTGCAGTTA	AAAAGCTCGT	AGTTGGATCT	TGGGAGCGGG	CGGGCGGTCC	120
GCCGCGAGGC	GAGTCACCGC	CCGTCCCCGC	CCCTTGCCTC	TCGGCGCCCC	CTCGATGCTC	180
TTAGCTGAGT	TGTCCCGCGG	GGCCCGAAGC	GTTCAGTTTG	AAAAAAATTAG	AGTTGTTCA	240
AAGCAGGGCCC	GAGCCGCCTG	GATAACGCCA	GCTAGGAAAT	AATGGAATAG	GACCGCGGTT	300
CCTATTTGT	TTGGTTTCG	GAACTGAGCC	CATGATTAAG	GGAAACGGCC	GGGGGCATT	360
CCTTATTGCG	CCCCCCTA					378

(2) INFORMATION FOR SEQ ID NO:23:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 719 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

GGATCTTTCC	CGCTCCCCGT	TCCTCCCGGC	CCCTCCACCC	GCGCGTCTCC	CCCCTTCTTT	60
TCCCCCTCTCC	GGAGGGGGGG	GAGGTGGGGG	CGCGTGGGCG	GGGTCGGGGG	TGGGGTCGGC	120
GGGGGACCGC	CCCCGGCCGG	CAAAAGGCCG	CCGCCGGGCG	CACTTCAACC	GTAGCGGTGC	180
GCCGCGACCG	GCTACGAGAC	GGCTGGGAAG	GCCCAGCGGG	GAATGTGGCT	CGGGGGGGGC	240
GGCGCGTCTC	AGGGCGCGCC	GAACCACCTC	ACCCCGAGTG	TTACAGCCCT	CCGGCCGCGC	300
TTTCGCGGAA	TCCCAGGGCC	GAGGGGAAGC	CCGATAACCG	TCGCCGCGCT	TTTCCCCTCC	360
CCCCGTCCGC	CTCCCGGGCG	GGCGTGGGGG	TGGGGGCCGG	GCCGCCCTC	CCACGCCCGT	420
GGTTTCTCTC	TCTCCCGGTC	TCGGCCGGTT	TGGGGGGGGG	AGCCCGGTTG	GGGGCGGGGC	480
GGACTGTCTT	CAGTGCGCC	CGGGCGTCGT	CGCGCCGTCG	GGCCCGGGGG	GTTCTCTCGG	540
TCACGCCGCC	CCCGACGAAG	CCGAGCGCAC	GGGGTCGGCG	GCGATGTCGG	CTACCCACCC	600
GACCCGTCTT	GAAACACGGA	CCAAGGAGTC	TAACCGGTGC	GCGAGTCAGG	GGCTCGCACG	660
AAAGCCGCCG	TGGCGCAATG	AAGGTGAAGG	GCCCCGTCCG	GGGGCCCGAG	GTGGGATCC	719

(2) INFORMATION FOR SEQ ID NO:24:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 685 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

CGAGGCCTCT	CCAGTCCGCC	GAGGGCGCAC	CACCGGCCCG	TCTCGCCCGC	CGCGTCGGGG	60
AGGTGGAGCA	CGAGCGTACG	CGTTAGGACC	CGAAAGATGG	TGAACATATGC	CTGGGCAGGG	120
CGAAGCCAGA	GGAAACTCTG	GTGGAGGTCC	GTAGCGGTCC	TGACGTGCAA	ATCGGTGTC	180
CGACCTGGGT	ATAGGGCGA	AAGACTAATC	GAACCATCTA	GTAGCTGGTT	CCCTCCGAAG	240
TTTCCCTCAG	GATAGCTGGC	GCTCTCGCAA	CCTTCGGAAG	CAGTTTATC	CGGGTAAAGG	300
CGGAATGGAT	TAGGAGGTCT	TGGGGCCCGA	AACGATCTCA	AACTATTCT	CAAACCTTAA	360

ATGGGTAAGG	AAGCCGGCT	CGCTGGCGTG	GAGCCGGCG	TGGAATGCGA	GTGCCTAGTG	420
GGCCACTTT	GGTAAGCAGA	ACTGGCGCTG	CGGGATGAAC	CGAACGCCGG	TTAAGGCGC	480
CCGATGCCGA	CGCTCATCAG	ACCCCAGAAA	AGGTGTTGGT	TGATATAGAC	AGCAGGACGG	540
TGGCCATGGA	AGTCGGAATC	CGCTAAGGAG	TGTGTAACAA	CTCACCTGCC	GAATCAACTA	600
GCCCTGAAAA	TGGATGGCGC	TGGAGCGTCG	GGCCCATACC	CGGCCGTGCG	CGGCAGTCGG	660
	AACGGGACGG	GACGGGAGCG	GCCGC			685

(2) INFORMATION FOR SEQ ID NO:25:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 33 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

GAGGAATTCC CCTATCCCTA ATCCAGATTG GTG

33

(2) INFORMATION FOR SEQ ID NO:26:

*AI Cat*

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 35 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

AAACTGCAGG CCGAGCCACC TCTCTTCTGT GTTG

35

(2) INFORMATION FOR SEQ ID NO:27:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 33 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

AGGAATTCAC AGAAGAGAGG TGGCTCGGCC TGC

33

(2) INFORMATION FOR SEQ ID NO:28:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 34 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA  
(iii) HYPOTHETICAL: NO  
(iv) ANTISENSE: NO  
(v) FRAGMENT TYPE:  
(vi) ORIGINAL SOURCE:  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

AGCCTGCAGG AAGTCATAACC TGGGGAGGTG GCCC

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(2) INFORMATION FOR SEQ ID NO:29:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 80 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA  
(iii) HYPOTHETICAL: NO  
(iv) ANTISENSE: NO  
(v) FRAGMENT TYPE:  
(vi) ORIGINAL SOURCE:  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

AAACTGCAGG TTAATTAACC CTAACCCTAA CCCTAACCCCT AACCTAAACC CTAACCCTAA  
CCCTAACCCCT AACCCGGGAT

60  
80

(2) INFORMATION FOR SEQ ID NO:30:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 19 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA  
(iii) HYPOTHETICAL: NO  
(iv) ANTISENSE: NO  
(v) FRAGMENT TYPE:  
(vi) ORIGINAL SOURCE:  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

TTGGGCCCTA GGCTTAAGG

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(2) INFORMATION FOR SEQ ID NO:31:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 25 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA  
(iii) HYPOTHETICAL: NO  
(iv) ANTISENSE: NO  
(v) FRAGMENT TYPE:  
(vi) ORIGINAL SOURCE:  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

GCCAGGGTTT TCCCAGTCAC GACGT

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(2) INFORMATION FOR SEQ ID NO:32:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 26 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

GCTGCAAGGC GATTAAGTTG GGTAAC

26

(2) INFORMATION FOR SEQ ID NO:33:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 26 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:

TATGTTGTGT GGAATTGTGA GCGGAT

26

*21*  
(2) INFORMATION FOR SEQ ID NO:34:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:

GGGTTTAAAC AGATCTCTGC A

21